

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/096171 A3

(51) International Patent Classification:
G06F 17/14 (2006.01) *G01J 3/45* (2006.01)

(74) Agents: FROST, Alex, John et al.; BOULT WADE TEN-
NANT, Verulam Gardens, 70 Gray's Inn Road, LONDON
WC1X 8BT (GB).

(21) International Application Number:
PCT/EP2005/002114

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW.

(22) International Filing Date:
25 February 2005 (25.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0406246.9 19 March 2004 (19.03.2004) GB

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*):
THERMO ELECTRON CORPORATION [US/US]; 81
Wyman Street, P.O. Box 9046, Waltham, MA 02254-9046
(US).

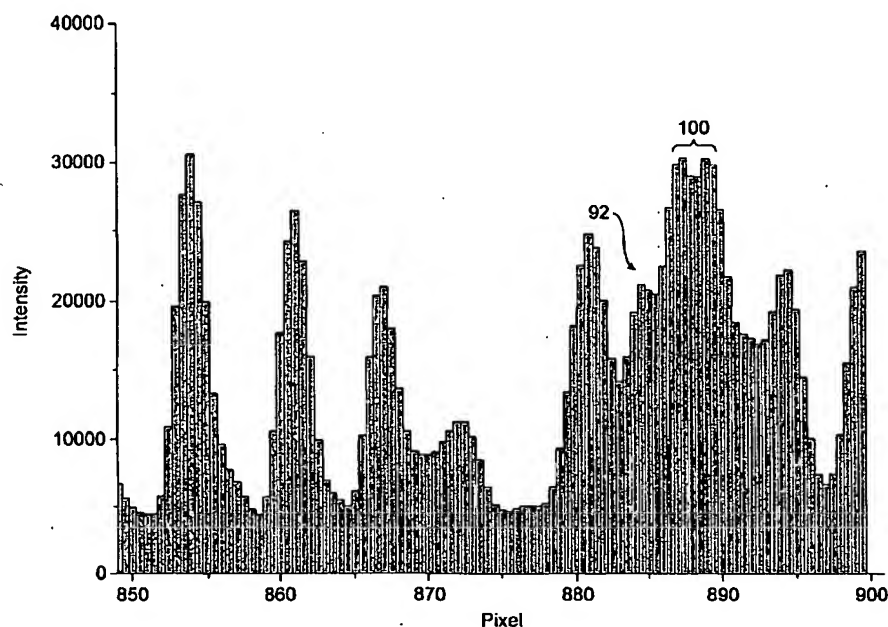
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): BOHLEN,
Jean-Marc [CH/CH]; Ch. des Grands Champs 5, CH-1033
CHESEAUX (CH). HALASZ, Edmund [RO/CH];
Chemin du Stand 15B, CH-1024-VD ECUBLENS (CH).

Declaration under Rule 4.17:
— of inventorship (Rule 4.17(iv))

[Continued on next page]

(54) Title: A METHOD OF ENHANCING SPECTRAL DATA



(57) Abstract: A method of enhancing spectral data such as a frequency, wavelength or mass spectrum comprises applying an inverse Fourier Transform to the data in the frequency, wavelength or mass spectrum, zero-filling and, optionally, apodizing that inverse transform data, and then applying a Fourier Transform to convert the inverse data back into the frequency, wavelength or mass domain. The resultant processed spectrum provides a more accurate indication of peak location, shape and height.

WO 2005/096171 A3



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

14 September 2006